

The Development of Liberal Arts and Sciences

二〇 二〇

——— 二〇二〇年二月二日 [1]

Technological Singularity Technological Singularity

Technological Singularity [2] Technological Singularity

Technological Singularity

Technological Singularity
Technological Singularity

Leukotomy Leukotomy [3] Leukotomy

In Math We Trust Technological Singularity AlphaGo Zero superhuman “数学
技术主义”

Technological Singularity

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Technological Singularity [5] Technological Singularity

[6]

[7]

ابن حیثام Ibn al-Haytham

A decorative horizontal bar consisting of a series of small, evenly spaced rectangular blocks, likely made of wood or a similar material, arranged in a single row.

13 14

A horizontal row of fifteen empty square boxes, intended for children to write their names in, likely as part of a classroom activity.

A horizontal row of ten empty square boxes, likely used for a survey or form.

15-16 15-16 well-controlled (Filippo Brunelleschi) 15-16

□□□□□□□□□□

【10】
【11】

【12】

peer review

well-controlled

【13】

【14】

metaphysics

【15】

18

【16】

epistemology

100% 100%

19 19 19
19

1819

Ferdinand Karl Schweikart 1830

[20] □

“”

A horizontal row of fifteen empty square boxes, intended for children to draw or color in.

20

[21] [22]

“Forrest Gump” Forrest Gump
“A City upon a Hill” [23]

“leukotomy” Forrest Gump
“A City upon a Hill” [24]

“Forrest Gump” Forrest Gump
“A City upon a Hill”

“Forrest Gump” Forrest Gump
“A City upon a Hill” personality intelligence

“Forrest Gump” Forrest Gump
“A City upon a Hill” “Forrest Gump” [25]

“Forrest Gump” Forrest Gump
“A City upon a Hill” [26]

“Forrest Gump”

20 “Forrest Gump” Forrest Gump
“A City upon a Hill”

“Forrest Gump” mainframe personal computer smartphone “Forrest Gump”
“A City upon a Hill”

“Forrest Gump” leukotomy “Forrest Gump” “A City upon a Hill”

“Forrest Gump” (Karl Popper) “Forrest Gump” “A City upon a Hill”

“Forrest Gump” “A City upon a Hill”

“Forrest Gump” “A City upon a Hill” [27]

“Forrest Gump” “A City upon a Hill”

Algorithmic complexity

Turing Test AlphaGo Zero datasets

Turing Machine

Universal approximation theorem

Technological Singularity

AI: A Modern Approach Wind Tunnel approach

Wind Tunnel approach

Wind Tunnel approach

SAE level 5 SAE level 4 SAE level 4 SAE level 4

AlphaGo Zero Nature superhuman Superhuman generic human generic generic superhuman AlphaGo Zero

Wind Tunnel approach

Wind Tunnel approach

Wind Tunnel approach Occam's Razor

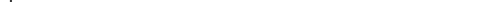
Occam's Razor Wind Tunnel approach Occam's Razor

Wind Tunnel approach

Occam's Razor Wind Tunnel approach

Wind Tunnel approach

三

自恋基因 (或不死基因) The Selfish Gene (or The Immortal Gene) [28] 

_____“_____”_____ leukotomy _____

Gu Test A Progressive Measurement Of Generic Artificial Intelligence

guideline judgement “ ” [30]

ANSWER

智能手机 smartphone 由 CPU 运行 operating system (OS) 管理。

2018 ລົງທະບຽນເກີດຂຶ້າງເກີດໃຫຍ່ Google/Waymo ເກີດສຳເນົາໃຫຍ່
ເກີດສຳເນົາ smartphone ເກີດສຳເນົາໃຫຍ່ 5G ເກີດສຳເນົາໃຫຍ່

智能手机 [31] smartphone smartphone infrastructure

80~90 PC Internet [32] smartphone Internet smartphone PC Internet smartphone

iPhone smartphone mainframe PC smartphone consolidation smartphone Consolidation smartphone

smartphone smartphone

smartphone

smartphone

smartphone

greedy [33]

motif motif motif

[34]

Hawthorne effect

智能手机

智能手机

三

individualism [35] The Selfish Gene (The Immortal Gene)

『1870-1900年美國社會』 Gilded Age

〔36〕 Gilded Age [37] 911

金粉时代 Gilded Age 城市之巅 A City upon a Hill 森林奇遇记 Forrest Gump 911

“**中華人民共和國**”**中華人民共和國**
中華人民共和國
中華人民共和國

工业化和城市化 Gilded Age 美国社会

witch-hunt 亂世

“ ”

“**我**”**說**

“**中華人民共和國**”“**中國人民民主專政**”

personality dimension [38]

[39]

“…………”…………

[40]

1/5

A horizontal row of 15 empty rectangular boxes, likely used for input fields or placeholder text in a form.

Technological Singularity AlphaGo
Zero 19x19 AlphaGo Zero
superhuman [42] Technological Singularity
AlphaGo Zero [43]

AI A Modern Approach Wind Tunnel approach 737Max

AI

AI

AI

AI

BRAIN Initiative

Leukotomy [44]

AI

Technological Singularity

AI

AI

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- [1] AI
- [2] AI
- [3] AI

“**Chinese room**”  
“**Chinese room**”

[4] “**Chinese room**” Chinese room  
“**Chinese room**”

“**In Math We Trust**” In Math We Trust

“**Technological Singularity**” Technological Singularity

[5] “**guideline**” guideline  
“**judgement**” judgement

“**“**John Philoponus**”** John Philoponus

[6] “**John Philoponus**” John Philoponus  
“**guideline**” guideline

[7] “**Ibn al-Haytham**” Ibn al-Haytham  
“**methodology**” methodology

“**“**John Philoponus**”** John Philoponus

[8] “**John Philoponus**” John Philoponus  
“**Ibn al-Haytham**” Ibn al-Haytham

“**Ibn al-Haytham**” Ibn al-Haytham

[9] “**architect**” architect  
“**architect**” architect  
“**methodology**” methodology

[10] “**personality**” personality  
“**personality**” personality

“**personality**” personality

[11] “**personality**” personality  
“**personality**” personality  
“**personality**” personality

“**personality**” personality

“**personality**” personality  
“**personality**” personality

物理科学  
physical sciences

[12] 1630  
笛卡尔

1632  
笛卡尔

[13] 1637  
笛卡尔

1687  
笛卡尔

[14] 1641  
笛卡尔

[15] Gödel's theorems suggest metaphysics from  
humans may not work. I do not cross the boundary between religion and science.

笛卡尔  
Je pense, donc je suis  
笛卡尔

笛卡尔  
笛卡尔

[16] 20  
笛卡尔  
insights  
笛卡尔

笛卡尔  
笛卡尔

[17] Ferdinand Karl Schweikart  
笛卡尔  
笛卡尔

[18] 笛卡尔

[19] 笛卡尔

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笛卡尔

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笛卡尔

[21] Filippo Marinetti □ Manifesto del Futurismo□

Technological Singularity  
Nature AlphaGo Zero superhuman

去作亂 go rogue 去作亂 go rogue

[22] 1917

Паша) personality

A horizontal row of 20 empty rectangular boxes, each with a thin black border, intended for handwritten names.

1917

1917

Лапа

A horizontal row of 20 empty rectangular boxes, likely for writing names or responses.

[23] 『』

Technological Singularity

[24] □□□□□□□□□□□□□□□□□□□□□□

•  
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“”

“我就是想让你知道，你不是唯一一个被我爱着的人。”

attraction\passion\commitment commitment exclusive exclusive

leukotomy BRAIN Initiative

[26] 二〇一〇年十一月二日，胡锦涛在人民大会堂同出席中共十七届五中全会的全体同志合影。新华社记者 姚大伟 摄

Digitized by srujanika@gmail.com

A horizontal row of 20 empty rectangular boxes, intended for students to write their answers in a handwriting practice exercise.

ARBEIT MACHT FREI

[27] 

[28] The Selfish Gene (or The Immortal Gene) 希臘人和野蠻人：要像對朋友和親戚一樣照顧前者，像對牲畜或植物一樣對待後者；要成為“希臘人的領袖，野蠻人的暴君，照顧前者就像照顧朋友和親戚，對待後者就像對待牲畜或植物”

[29] 

go rogue □ vandalist □ 1204

AlphaGo Zero არის ერთ-ერთი უძველესი მოდელი Nature ის AlphaGo Zero შემთხვევაში მატებული იყო superhuman performance მიღწევის

Jack Ralph Ralph leader Piggy Ralph Simon

The Development of Liberal Arts and Sciences

[31] 5G 未来移动通信技术，将为自动驾驶提供支撑。同时，通过与Google/Waymo 等公司的基础设施合作，可以实现自动驾驶的规模化应用。

Demis Hassabis დამის ჰასბის neuroscience ნერვული სისტემის უზრუნველყოფა  
human specific intelligence უნიკალური უმუშობესობა

[32] Intel CPU CPU OS

CPU և OS մասնակիությունը 1980 թվականից

Intel smartphone CPU Technological Singularity  
ARM ARM Intel Google Android OS open source

CPU OS smartphone CPU Intel  
ARM ARM Intel Google Android OS open source

Linus Torvalds Linux Google Android Microsoft Apple smartphone Google  
Google CPU OS ARM Google CPU OS smartphone

smartphone

[33]

1920

niche sector

ARM CPU Linux  
Android CPU OS

[34] program music "program music"

[35]

[36] "On 28 July, after reading Serbia's reply, Wilhelm commented, 'But that eliminates any reason for war'[132] or 'every cause for war falls to the ground'. [133].....Wilhelm's sudden change of mind about war enraged Bethmann Hollweg, the military, and the diplomatic service, who proceeded to sabotage Wilhelm's offer.[135]", from [https://en.wikipedia.org/wiki/July\\_Crisis](https://en.wikipedia.org/wiki/July_Crisis).

Wilhelm

# Wilhelm

A horizontal row of 20 small, empty rectangular boxes arranged in a single row.

[37] 金裝時代 Gilded Age 1920 金裝時代

[39] □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

crowded

4

"In thousands of tests, nothing like this had ever happened,' he said.", Boeing Built Deadly Assumptions Into 737 Max, Blind to a Late Design Change, <https://www.nytimes.com/2019/06/01/business/boeing-737-max-crash.html>.

[43] Demis Hassabis 陈一鸣等提出 AlphaGo Zero，实现了从零开始自我对弈学习成为超人级棋手

The Guardian - a meta-solution to any problem - AGI -

"Demis Hassabis ... is deadly serious when he tells me he is on a mission to 'solve intelligence, and then use that to solve everything else'.

'One way of thinking of AGI is as a process that will automatically convert unstructured information into actionable knowledge. What we're working on is potentially a meta-solution to any problem.'"

<https://www.theguardian.com/technology/2016/feb/16/demis-hassabis-artificial-intelligence-deepmind-alphago>

[44] Leukotomy 離子體質電離子體質 Moniz 莫尼茲 离子體質電離子體質 leukotomy 離子體質電離子體質  
離子體質電離子體質 Leukotomy 離子體質電離子體質 Leukotomy 離子體質電離子體質 leukotomy 離子體質電離子體質  
離子體質電離子體質 leukotomy 離子體質電離子體質 Moniz 莫尼茲 离子體質電離子體質 leukotomy 離子體質電離子體質  
<https://www.nobelprize.org/prizes/medicine/1949/moniz/article/>, First published 29 October 1998

Moniz 蒙尼茲<sup>1</sup>獲得1949年諾貝爾醫學獎，「為他發現白質切開術在某些精神失常方面的治療價值。」<sup>2</sup>白質切開術<sup>3</sup>是精神科治療的一項重要技術。<https://www.nobelprize.org/prizes/medicine/1949/moniz/biographical/>

leucotomy